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PATENT ABSTRACTS OF JAPAN

(11) Publication number: 05-012430

05-012430

(43) Date of publication or application: 22/10/1993

(51)Int CL
G06F 15/66
G06F 15/62

609B 15/62
609B 29/00

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(54) MAP SYNTHESIZING METHOD
(57)Abstract: 

PURPOSE: To fully automate processes for synthesizing two narrow area maps and to prepare a synthesis template for the next area.

map, further to eliminate the vagueness of the result and to decrease an arithmetic quantity in the case of syncretization.

CONSTITUTION: In the case of selecting a pair of overlapped reference points, a threshold depending on

the measurement error of each object point is used (step 104). As an evaluating method for the degree of overlapping the two normal areas means a positive overlapping.

overlapping value is applied when there is the object point included in one narrow area map 'near' the

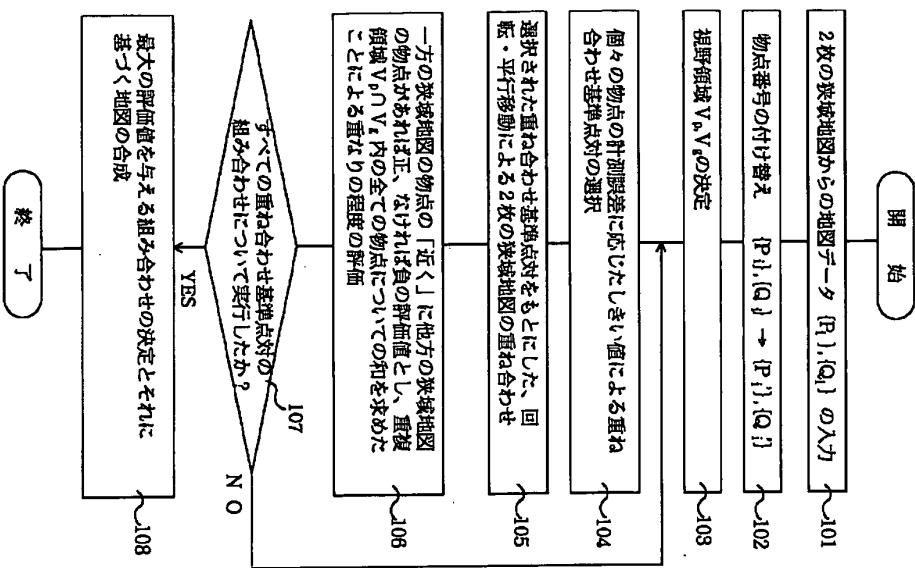
object point included in the other narrow area map, a negative evaluation value is applied when there is no

object point, and the total sum of evaluation values is calculated (step 106) concerning all the object points in the overlapped area. Concerning the combination of

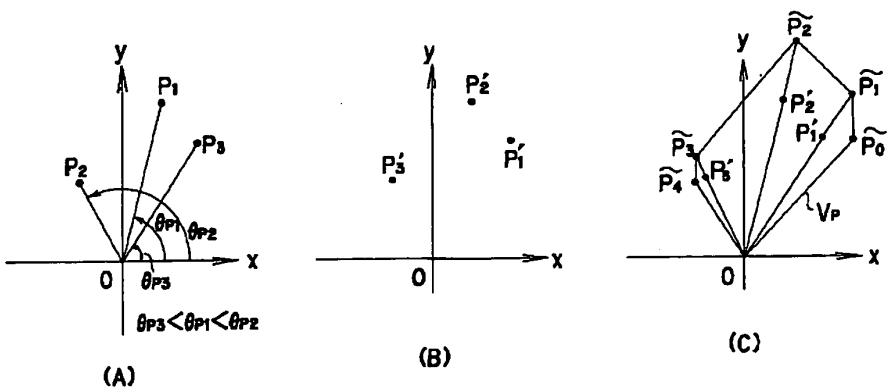
all the pairs of overlapped reference points, the degree of overlapping is evaluated (step 107) and the

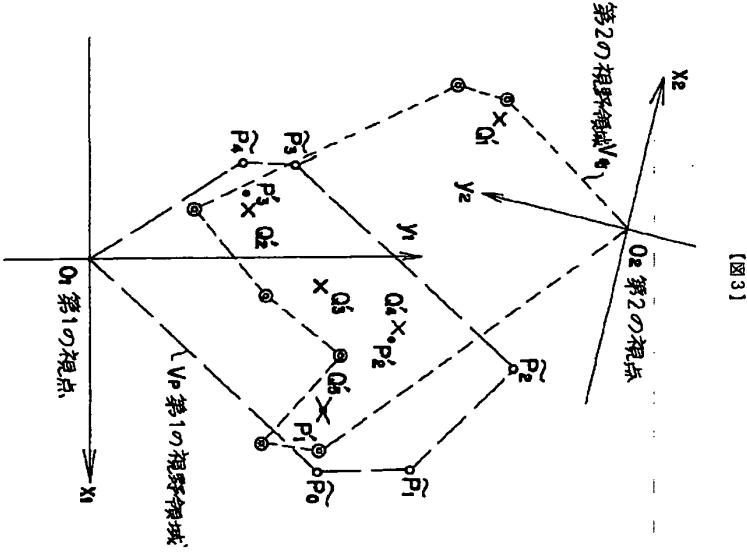
map is synthesized (step 108) assuming that the maximum evaluation value shows the most exact overlapping.

[図1]

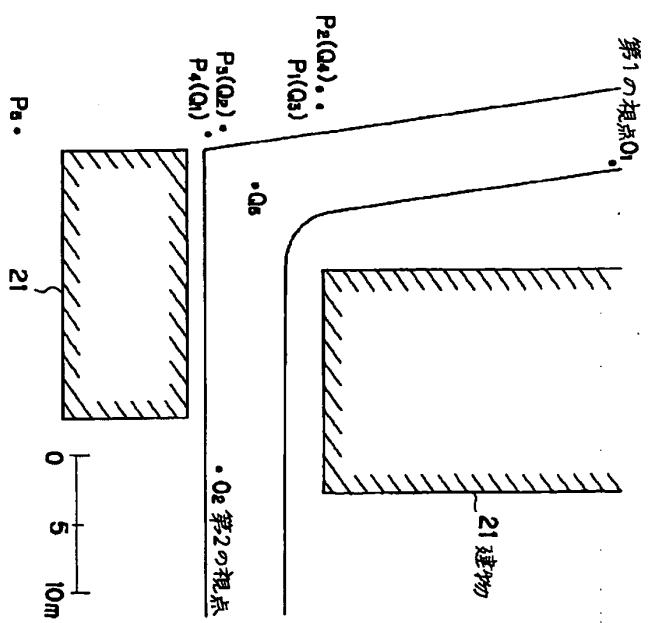


[図2]





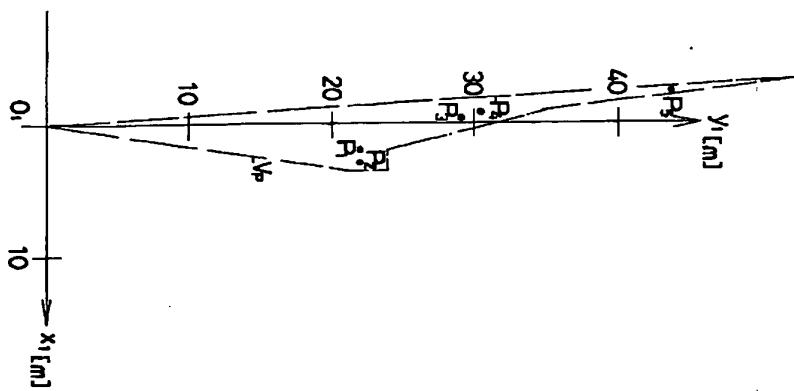
[図3]



[図4]

(14)

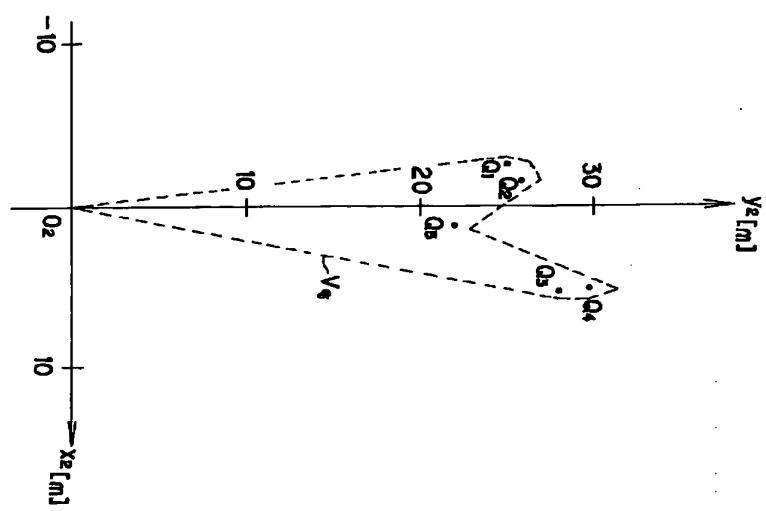
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【図5】

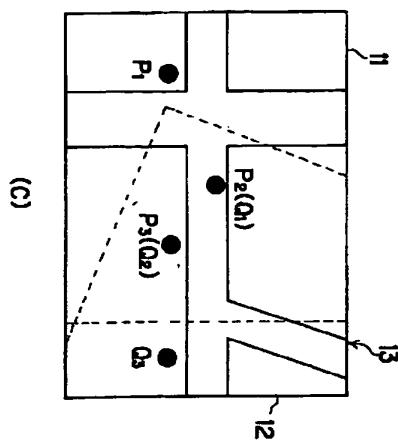
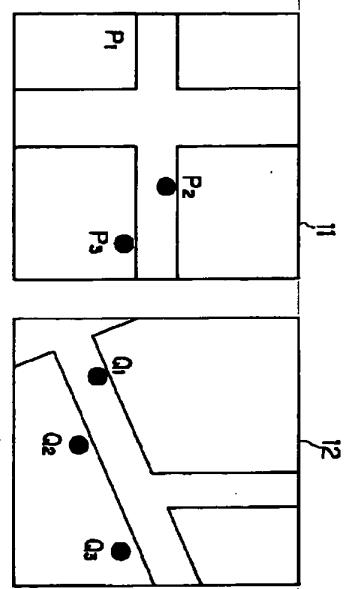
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【図6】

【図7】



(C)

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